

Uwe GUNTO et al.
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This listing of claims will replace all prior versions of claims in the application.

Claim 1. (original) High-temperature solid electrolyte fuel cell comprising an electrolyte layer between two electrode layers obtainable by a process comprising the steps:

- (i) applying electrolyte particles in a screen printing paste onto an unsintered electrolyte and sintering the thus produced structure,
- (ii) depositing a nano-porous electrode thin layer by a sol-gel-process or an MOD-process on the structure obtained according to step (i) and the thermal treatment of the thus coated structure.

Claim 2. (currently amended) High-temperature solid electrolyte fuel cell according to claim 1 ~~wherein~~ characterized in that an electrolyte of yttrium or scandium doped ZrO_2 is used in step (i).

Claim 3. (currently amended) High-temperature solid electrolyte fuel cell according to claim 1 ~~or 2 wherein~~ characterized in that a paste comprising doped zirconium dioxide (yttrium or scandium doped) or doped cerium oxide (yttrium, gadolinium or samarium doped) is used as screen printing paste.

Claim 4. (currently amended) High-temperature solid electrolyte fuel cell according to claim 3 ~~wherein~~ characterized in that the screen printing paste has a solid content of 10 to 30 wt.-%.

Claim 5. (currently amended) High-temperature solid electrolyte fuel cell according to claim 3 ~~or 4 wherein~~ characterized in that the granule size distribution of the powder fraction of the paste is in the range of 5 to 20 μm .

Claim 6. (currently amended) High-temperature solid electrolyte fuel cell according to claim 1 ~~claims 1 to 5 wherein~~ characterized in that it further comprises an

electrolyte boundary layer on the structured screen printed electrolyte layer obtained according to step (i), which is applied by an MOD process.

Claim 7. (currently amended) High-temperature solid electrolyte fuel cell according to ~~claim 1 claims 1 to 6 wherein~~ characterized in that a layer comprising strontium doped lanthanum cobaltate (LSC) $\text{La}_{0.50}\text{Sr}_{0.50}\text{CoO}_3$ is deposited in step (ii).

Claim 8. (currently amended) High-temperature solid electrolyte fuel cell according to ~~claim 1 claims 1 to 6 wherein~~ characterized in that a layer comprising substoichiometric strontium doped lanthanum manganate (ULSM) $\text{La}_{0.75}\text{Sr}_{0.20}\text{MnO}_3$ is deposited in step (ii).

Claim 9. (currently amended) High-temperature solid electrolyte fuel cell according to claim 7 or 8 ~~wherein~~ characterized in that the solid content of the LSM coating solution and the solid content of the ULSM coating solution is 12-14 mass %, respectively.

Claim 10. (new) A process to provide a fuel cell comprising:

- (i) applying electrolyte particles in a screen printing paste onto an unsintered electrolyte and sintering the thus produced structure,
- (ii) depositing a nano-porous electrode thin layer by a sol-gel-process or an MOD-process on the structure obtained according to step (i) and the thermal treatment of the thus coated structure.